Access DB# 95928

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Mark Clark Examiner #: 69462 Date: 9/13/02
Art Unit: 1616 Phone Number 308-4550 Serial Number: 10/023,100
Mail Box and Bldg/Room Location: 2D 11 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

****

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): attached

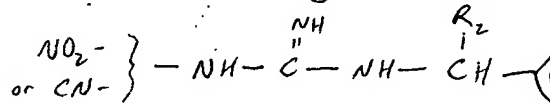
Earliest Priority Filing Date: _____

***For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.**

Composition/Method of plant defoliation:

composition comprises:

1) Nitro- or Cyano-guanidine compound



(see cl. 1)

2) a secondary herbicide/active agent:

Thidiazuron
Diuron
Ethephon
PPO inhibiting herbicide (see attached)

****

STAFF USE ONLY	Type of Search	Vendors and cost where applicable
Searcher: Shep Davis	NA Sequence (#)	STN
Searcher Phone #: 305-4499	AA Sequence (#)	Dialog
Searcher Location:	Structure (#)	Questel/Orbit
Date Searcher Picked Up:	Bibliographic	Dr.Link
Date Completed: 9/28/02	Litigation	Lexis/Nexis
Searcher Prep & Review Time:	Fulltext	Sequence Systems
Clerical Prep Time:	Patent Family	WWW/Internet
Online Time:	Other	Other (specify)

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=> fil hcaplus
FILE 'HCAPLUS' ENTERED AT 13:26:29 ON 28 SEP 2002
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FILE COVERS 1907 - 28 Sep 2002  VOL 137 ISS 14
FILE LAST UPDATED: 27 Sep 2002  (20020927/ED)

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.

CAS roles have been modified effective December 16, 2001. Please
check your SDI profiles to see if they need to be revised. For
information on CAS roles, enter HELP ROLES at an arrow prompt or use
the CAS Roles thesaurus (/RL field) in this file.

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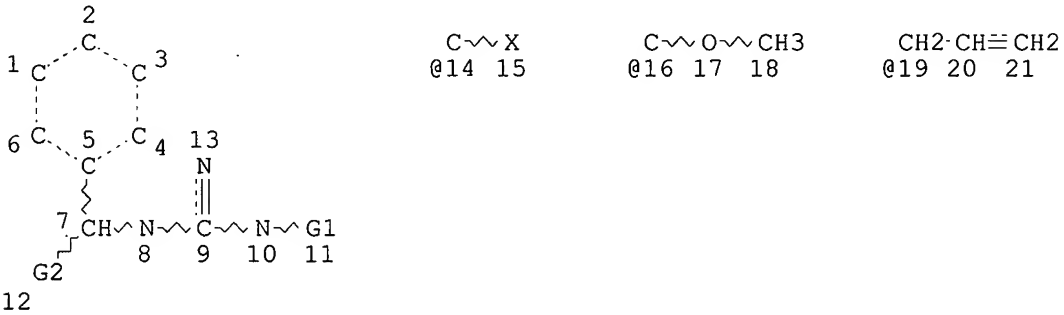


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VAR G2=CH3/ET/14/N-PR/16/19
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  21

STEREO ATTRIBUTES: NONE
L3            92 SEA FILE=REGISTRY SSS FUL L1
L10           21 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L3


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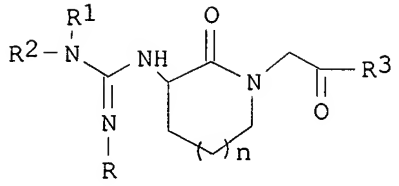
L10 ANSWER 1 OF 21 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2000:573666 HCAPLUS
DOCUMENT NUMBER: 133:164010
TITLE: Preparation of caprolactams, piperidinones, and pyrrolidinones as Factor Xa inhibitors in prevention or treatment of thromboses, coronary artery disease, or cerebrovascular disease in mammals
INVENTOR(S): Stein, Philip D.; Bisacchi, Gregory S.; Shi, Yan; O'Connor, Stephen P.; Li, Chi
PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA
SOURCE: PCT Int. Appl., 284 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000047207	A1	20000817	WO 2000-US2883	20000202
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6297233	B1	20011002	US 2000-496571	20000202
EP 1156803	A1	20011128	EP 2000-914505	20000202
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				

PRIORITY APPLN. INFO.: US 1999-119372P P 19990209
US 1999-167428P P 19991124
WO 2000-US2883 W 20000202
OTHER SOURCE(S): MARPAT 133:164010
GI



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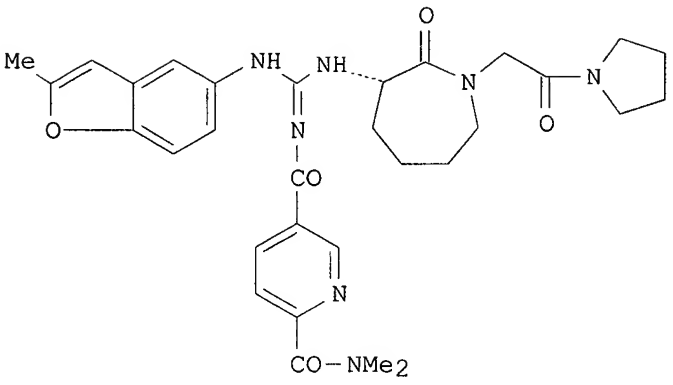

II

AB Title chiral compds. [I; R = CN, CONH2, COOCH2CH3, COC6H5, SO2NH2, OCH3, SO2N(CH3)2, SO2CH3, arylsulfonyl, heterocyclosulfonyl, (un)substituted Ph, heterocyclyl, heterocycleocarbonyl, alkoxylcarbonyl, arylaminocarbonyl; R1 = H, arylalkyl; R2 = alkyl, (un)substituted Ph, benzoheterocyclyl, cyclopentyl; R3 = heterocyclylamino, heterocyclyl, alkoxy, cycloalkylamino, OH; n = 0, 1, 2] , pharmaceutically acceptable salts, and stereoisomers are pred. as Factor Xa inhibitors and are useful as anticoagulants (no data). A method for treating cardiovascular diseases assocd. with thromboses is also provided. Thus, the title compd. II was prepd.

IT **288076-32-4P 288076-61-9P 288076-62-0P**
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of caprolactams as Factor Xa inhibitors in prevention or treatment of thromboses, coronary artery disease, or cerebrovascular disease in mammals)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 2 OF 21 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1999:252859 HCAPLUS
DOCUMENT NUMBER: 131:111152
TITLE: K+ channel blockers: natriuretic potency correlates to vascular ATP-sensitive K+ channel blockade
AUTHOR(S): Clark, M. A.; Lawson, J. A.; Ludens, J. H.
CORPORATE SOURCE: Pharmacology, Pharmacia and Upjohn, Inc., Kalamazoo, MI, USA
SOURCE: Methods and Findings in Experimental and Clinical Pharmacology (1999), 21(1), 25-30
CODEN: MFEPDX; ISSN: 0379-0355
PUBLISHER: Prous Science
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Using analogs of known vascular ATP-sensitive K+ channel (KATP) blockers, we identified compds. with a wide range of potencies (over 500-fold) in their capacity to block the hypotensive response of 0.2 mg/kg pinacidil in rats. The most potent of these, U-97025E, belongs to a newly disclosed

class of compds., the cyanoguanidines. U-97025E at 0.04 mg/kg blocked 50% of the depressor response induced by 0.2 mg/kg pinacidil. The maximal natriuresis induced by U-97025E (0.4 mg/kg i.v.) increased Na+ excretion by approx. 60%. This natriuresis is of the same magnitude as that induced by thiazide without any effect on K+ excretion. We found a high degree of correlation between natriuretic potency and the capacity to block the blood pressure lowering effects of pinacidil, both among closely related analogs and dissimilar compds. These findings imply an obligatory rather than incidental relation between vascular KATP blockade and natriuresis. The exact mol. link of the vascular and renal effects remains to be detd.

IT **155342-81-7 232600-75-8**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(natriuretic potency of potassium channel blockers correlate with vascular ATP-sensitive K channel blockade)

REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 3 OF 21 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1998:26451 HCAPLUS
DOCUMENT NUMBER: 128:149199
TITLE: Pharmacological characterization of novel cyanoguanidines as vascular KATP channel blockers
AUTHOR(S): Khan, Sajida A.; Higdon, Nicole R.; Hester, Jackson B.; Meisheri, Kaushik D.
CORPORATE SOURCE: Cardiovascular Pharmacology and Medicinal Chemistry, Pharmacia and Upjohn, Inc., Kalamazoo, MI, USA
SOURCE: Journal of Pharmacology and Experimental Therapeutics (1997), 283(3), 1207-1213
CODEN: JPETAB; ISSN: 0022-3565
PUBLISHER: Williams & Wilkins
DOCUMENT TYPE: Journal
LANGUAGE: English

AB KATP blockers derived from cyanoguanidine KATP opener (P1075) chem. were characterized in isolated rabbit mesenteric artery and evaluated functionally by their ability to antagonize maximal relaxation induced by pinacidil (1 .mu.M) of norepinephrine (5 .mu.M) contraction. PNU-89692, PNU-97025E and PNU-99963 were identified as KATP blockers with IC50 values of 860, 83 and 18 nM, resp. Studies with selected chiral compds. demonstrated that the (R)-enantiomers were more potent as KATP blockers than the (S)-enantiomers. Further studies demonstrated that PNU-99963 (1) inhibited relaxations by other KATP openers, such as cromakalim (0.5 .mu.M) and minoxidil sulfate (5 .mu.M); (2) was more potent than the other known vascular KATP blockers (glyburide and PNU-37883A); and (3) acted as a KATP blocker in isolated rat aorta as well as dog coronary artery. PNU-99963 actions were selective because PNU-99963 (100 nM) was without any inhibitory effect on relaxations induced by forskolin (0.5 .mu.M), nitroglycerin (1 .mu.M), D600 (25 or 500 nM) or 15 mM K+-induced relaxations of NE contractions in K+-free PSS. The discovery of KATP blockers and openers from the same chem. series is a first for the K+ channel field. The close structural similarity between P1075 (KATP opener) and PNU-99963 (KATP blocker), stereospecificity of action and potency and selectivity all suggest that these mols. may prove to be valuable tools in understanding the structure and function of the KATP channel complex in vascular smooth muscle.

IT **155342-60-2**, PNU 94126 **155342-61-3**, PNU 94750
155342-66-8, PNU 94158 **155342-78-2**, PNU 96179
155342-80-6, PNU 96293 **172885-03-9**, PNU 94563
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(selectivity and stereospecificity of cyanoguanidines as vascular KATP channel blockers)

L10 ANSWER 4 OF 21 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1997:685663 HCAPLUS
DOCUMENT NUMBER: 127:341383
TITLE: QSAR study on hypotensive activity of analogs of pinacidil
AUTHOR(S): Liu, Shouping; Huang, Wenlong; Chen, Wenhao; Hua, Weiyi; Peng, Sixun
CORPORATE SOURCE: Dep. Polymer Material, Nanjing Univ. Science Technology, Nanjing, 210094, Peop. Rep. China
SOURCE: Zhongguo Yaoke Daxue Xuebao (1997), 28(1), 1-4
CODEN: ZHYXE9; ISSN: 1000-5048
PUBLISHER: Zhongguo Yaoke Daxue
DOCUMENT TYPE: Journal
LANGUAGE: Chinese

AB Eleven mol. mechanics (MM) parameters and 13 quantum chem. parameters of Pinacidil-type cyanoguanidine, thioureas and imine-derived compds. were calcd. by MM2 method and CNDD/2 method resp. Two significant correlation equations between the vasodilator activity of these compds. and the structural parameters mentioned above were established by step-wise regression analyses. The QSAR equations show that the vasodilator activity of these compds. increases with the increase of dipole moment (DM), ratio value (PS) of solvent-accessible hydrophobic surface area of mol. to the hydrophilic, and of abs. value of electronic charge of pyridenenitrogen. The results also suggest that the vasodilator activity of these compds. is mainly dependent upon the distribution of electronic charge and the hydrophobicity of mols.

IT **172885-03-9**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(QSAR study on hypotensive activity of analogs of pinacidil)

L10 ANSWER 5 OF 21 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1997:632705 HCAPLUS
DOCUMENT NUMBER: 127:288180
TITLE: Cyanoguanidines as potassium-channel blockers useful for the treatment of cardiovascular disorders and for diuretics, and preparation thereof
INVENTOR(S): Humphrey, Stephen J.; Meisheri, Kaushik D.; Ludens, James H.; Hester, Jackson B., Jr.
PATENT ASSIGNEE(S): Pharmacia & Upjohn Company, USA
SOURCE: U.S., 8 pp., Cont.-in-part of U.S. Ser. No. 188,969,abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5668157	A	19970916	US 1996-666502	19960625
WO 9520579	A1	19950803	WO 1995-US24	19950109

W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US
RW: KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 1994-188969 19940128
WO 1995-US24 19950109
OTHER SOURCE(S): MARPAT 127:288180
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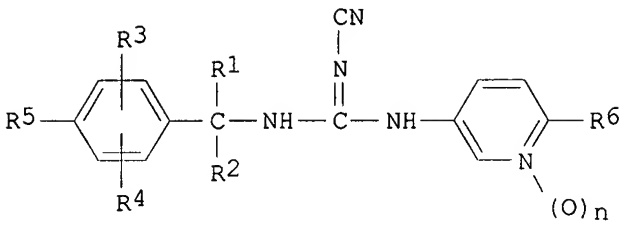

I

AB Cyanoguanidine compds. I (R1 = H, Me; R2 = C1-6 alkyl, C2-6 alkenyl, C2-6 alkynyl, C3-5 cycloalkyl, C3-5 cycloalkenyl, hydroxymethyl, methoxy-C1-5 alkyl, or R1 and R2 are combined to form C3-6 carbocyclic ring; R3, R4 = H, C1-4 alkyl, F, Cl, Br, I, CF3; R5 = H, F, Cl; R6 = H, NH2, NHCH3, NHC2H5, NHCH(CH3)2, N(CH3)2, etc.; n = 0, 1), and pharmaceutically acceptable acid addn. salts thereof, are disclosed. I are potassium channel blockers useful in the treatment of cardiovascular disorders, e.g. congestive heart failure and hypertension, and as diuretics. Prepn. of selected I is described.

IT **170793-38-1P 170793-39-2P 170793-41-6P**
170793-42-7P 170793-43-8P 170793-44-9P
170793-45-0P 170793-47-2P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(cyanoguanidines as potassium-channel blockers useful for the treatment of cardiovascular disorders and for diuretics, and prepn. thereof)

L10 ANSWER 6 OF 21 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1996:657033 HCAPLUS
DOCUMENT NUMBER: 125:300837
TITLE: Preparation of N-(3-pyridyl)-N''-cyanoguanidines as potassium channel blockers
INVENTOR(S): Humphrey, Stephen J.; Meisheri, Kaushik D.; Ludens, James H.; Hester, Jackson B., Jr.
PATENT ASSIGNEE(S): Upjohn Co., USA
SOURCE: U.S., 11 pp., Cont.-in-part of U.S. Ser. No. 929,795, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5567722	A	19961022	US 1995-384562	19950206
AT 158279	E	19971015	AT 1993-917262	19930721
ES 2107049	T3	19971116	ES 1993-917262	19930721
ZA 9305619	A	19950203	ZA 1993-5619	19930803
IL 106641	A1	20010111	IL 1993-106641	19930810
CN 1090575	A	19940810	CN 1993-117781	19930813
CN 1039997	B	19980930		
US 5633374	A	19970527	US 1995-553308	19951120

PRIORITY APPLN. INFO.: US 1992-929795 B2 19920813
WO 1993-US11332 W 19931126
OTHER SOURCE(S): MARPAT 125:300837
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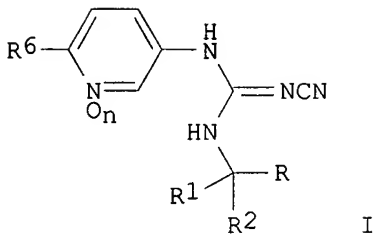

I

AB Title compds. [I; R = (un)substituted Ph; R1 = H or Me; R2 = (cyclo)alk(en)yl, CH2OH, methoxyalkyl, etc.; R1R2 = alkylene; R6 = H, (di)(alkyl)amino, etc.; n = 0 or 1] were prepd. Thus, 3-aminopyridine was aminated with NCN:C(OPh)2 and the product aminated with 3-ClC6H4CHEtNH2 to give I (R = C6H4Cl-3, R1 = R6 = H, R2 = Et, n = 0). Data for in vivo natriuretic and vascular potassium channel antagonist activities of I were given.

IT **155342-60-2P 155342-61-3P 155342-64-6P**
155342-66-8P 155342-72-6P 155342-73-7P
155342-74-8P 155342-78-2P 155342-79-3P
155342-80-6P 155342-81-7P 155342-82-8P
155342-83-9P 155342-84-0P 155342-86-2P
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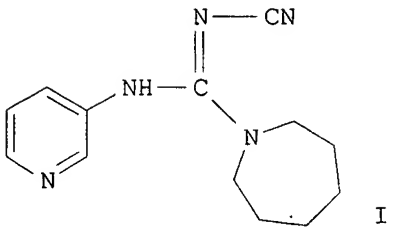
158943-03-4P 158943-04-5P 158943-06-7P
158943-07-8P 158943-08-9P 158943-09-0P
158943-10-3P 158943-11-4P 158943-12-5P
158943-13-6P 158943-14-7P 172885-03-9P
183119-59-7P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of N-(3-pyridyl)-N''-cyanoguanidines as potassium channel blockers)

IT **158943-20-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of N-(3-pyridyl)-N''-cyanoguanidines as potassium channel blockers)

L10 ANSWER 7 OF 21 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1995:982074 HCAPLUS
DOCUMENT NUMBER: 124:105598
TITLE: Synthesis and hypotensive activity of some thiourea/cyanoguanidine analogs of pinacidil
AUTHOR(S): Liu, Shouping; Xu, Guoyou; Chen, Wenyi; Hua, Weiyi; Peng, Sixun
CORPORATE SOURCE: Department of Medical Chemistry, China Pharmaceutical University, Nanjing, 210009, Peop. Rep. China
SOURCE: Zhongguo Yaoke Daxue Xuebao (1995), 26(4), 193-8
CODEN: ZHYXE9; ISSN: 1000-5048
PUBLISHER: Zhongguo Yaoke Daxue
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
GI



I

AB Four thiourea analogs and 8 cyanoguanidine analogs of pinacidil were designed and synthesized for novel antihypertensive agents. The chem. structures of all the new compds. were identified by elemental anal., IR, MS and HNMR. All the compds. possessed vasodilatory and hypotensive activity in different degrees. Among these compds., I was the most potent one.

IT **172885-03-9P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(synthesis and hypotensive activity of thiourea/cyanoguanidine analogs of pinacidil)

L10 ANSWER 8 OF 21 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1995:946840 HCAPLUS
DOCUMENT NUMBER: 124:8633
TITLE: Preparation of pyridinylcyanoguanidines as potassium channel blockers.
INVENTOR(S): Humphrey, Stephen J.; Meisheri, Kaushik D.; Ludens, James H.; Hester, Jackson B., Jr.
PATENT ASSIGNEE(S): Upjohn Co., USA
SOURCE: PCT Int. Appl., 20 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9520579	A1	19950803	WO 1995-US24	19950109
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US				
RW: KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2179036	AA	19950803	CA 1995-2179036	19950109
AU 9515566	A1	19950815	AU 1995-15566	19950109
EP 741708	A1	19961113	EP 1995-907285	19950109
EP 741708	B1	19980520		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 09508382	T2	19970826	JP 1995-520050	19950109
AT 166343	E	19980615	AT 1995-907285	19950109
ES 2116726	T3	19980716	ES 1995-907285	19950109
US 5668157	A	19970916	US 1996-666502	19960625

PRIORITY APPLN. INFO.: US 1994-188969 19940128
WO 1995-US24 19950109

OTHER SOURCE(S): MARPAT 124:8633
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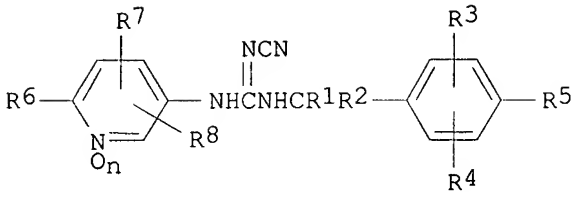

I

AB Title compds. [I; R1 = H, Me; R2 = alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, CH2OH, methoxyalkyl; R1R2 = atoms to form a C3-6 carboxyclic ring; R3, R4 = H, alkyl, F, Cl, Br, iodo, CF3; R5 = H, F, Cl; R6 = H, NH2, NHCH3, NHEt, NHCHMe2, NMe2, NEt2, NH(CH2)mOalkyl, NHC(O)alkyl, F, Cl, Br, alkyl, NH(CH2)mF, 1-imidazolyl, NHOalkyl, NHOH, NHSO2alkyl, SH, Salkyl, NHC(O)Oalkyl, NHC(O)NHalkyl, NHSO2NHalkyl, NHSO2N(alkyl)2, amino acid amide; R7 = alkyl, NH2, NHalkyl, N(alkyl)2, CF3, F, Cl, Br, iodo, alkoxy, OH, COOH, alkoxycarbonyl, CONH2, CONHalkyl, alkylcarbonyl, CON(alkyl)2, SO2NH2, SO2NHalkyl, CN, SO2N(alkyl)2, NHCOalkyl, NHCONHalkyl, NHCON(alkyl)2, NHSO2NHalkyl, NHSO2N(alkyl)2, SH, alkylthio, NO2, SO2alkyl, NHCO2alkyl, amino acid amide, H; R8 = H, alkyl, NH2, NHalkyl, NMe2, NEt2, F, Cl, Br, alkoxy, OH; m = 2, 3; n = 0, 1; with provisos], were prepd. 2-Chloro-3,5-diaminopyridine and diphenylcyanocarbonimidate were stirred 96 h in ethylene glycol di-Me ether to give N-(5-amino-6-chloro-3-pyridyl)-N'-cyano-O-phenylisourea. The latter was refluxed with 1-phenylcyclobutylamine and N-methylmorpholine in dioxane to give N-(5-amino-6-chloro-3-pyridyl)-N''-cyano-N'-(1-phenylcyclobutyl)guanidine. This at 0.1 .mu.M gave 90% K channel antagonism in rat mesenteric artery prepns.

IT **170793-38-1P 170793-39-2P 170793-41-6P**
170793-42-7P 170793-43-8P 170793-44-9P
170793-45-0P 170793-47-2P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of pyridinylcyanoguanidines as potassium channel blockers)

L10 ANSWER 9 OF 21 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1994:680546 HCAPLUS
DOCUMENT NUMBER: 121:280546
TITLE: Preparation of pyridylcyanoguanidines as potassium channel blockers
INVENTOR(S): Humphrey, Stephen J.; Meisheri, Kaushik D.; Ludens, James H.; Hester, Jackson B., Jr.
PATENT ASSIGNEE(S): Upjohn Co., USA
SOURCE: PCT Int. Appl., 34 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9404500	A1	19940303	WO 1993-US6752	19930721

W: AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, VN
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE,

BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

EP 655057	A1	19950531	EP 1993-917262	19930721
EP 655057	B1	19970917		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE

JP 08500111	T2	19960109	JP 1993-506258	19930721
AT 158279	E	19971015	AT 1993-917262	19930721
ES 2107049	T3	19971116	ES 1993-917262	19930721
ZA 9305619	A	19950203	ZA 1993-5619	19930803
IL 106641	A1	20010111	IL 1993-106641	19930810
CN 1090575	A	19940810	CN 1993-117781	19930813
CN 1039997	B	19980930		
US 5633374	A	19970527	US 1995-553308	19951120

PRIORITY APPLN. INFO.: US 1992-929795 A2 19920813
WO 1993-US6752 W 19930721
WO 1993-US11332 W 19931126

OTHER SOURCE(S): MARPAT 121:280546

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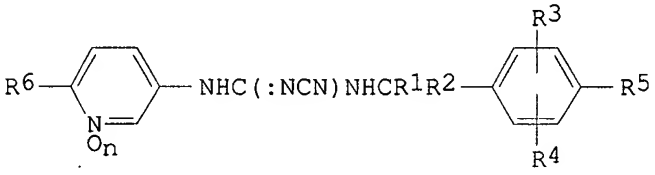

I

AB Title compds. I (R1 = H, Me; R2 = C1-6 alkyl, C2-6 alkenyl, C2-6 alkynyl, C3-5 cycloalkyl, C3-5 cycloalkenyl, HOCH2, MeO-C1-5 alkyl, R1R2 = carbocyclyl; R3, R4 = H, C1-4 alkyl, halo, F3C; R5 = H, Cl, F; R6 = H, (substituted) amino; n = 0, 1) and a salt thereof, are prepd. I are also useful as diuretics. N-3-pyridyl-N'-cyano-O-phenylisourea (prepn. given), (R)-.alpha.-methylbenzylamine, and Me2CHOH were refluxed to give (R)-I (R1 = R3-6 = H, R3 = Me, n = 0). I have good K channel antagonist activity as well as natriuretic activity.

IT **158943-20-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and reaction of, in prepn. of potassium channel blockers and diuretics)

IT **155342-60-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as potassium channel blocker)

IT **155342-61-3P 155342-64-6P 155342-66-8P**
155342-72-6P 155342-73-7P 155342-74-8P
155342-78-2P 155342-79-3P 155342-80-6P
155342-81-7P 155342-82-8P 155342-83-9P
155342-84-0P 155342-86-2P 155418-81-8P
158942-81-5P 158942-82-6P 158942-86-0P
158942-87-1P 158942-88-2P 158942-89-3P
158942-91-7P 158942-92-8P 158942-93-9P
158942-94-0P 158942-96-2P 158942-97-3P
158943-03-4P 158943-04-5P 158943-05-6P
158943-06-7P 158943-07-8P 158943-08-9P
158943-09-0P 158943-10-3P 158943-11-4P
158943-12-5P 158943-13-6P 158943-14-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as potassium channel blocker and diuretic)

L10 ANSWER 10 OF 21 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1994:323269 HCAPLUS
DOCUMENT NUMBER: 120:323269

TITLE: Preparation of N-phenyl(cyclo)alkyl-N'-3-pyridylcyanoguanidines and analog as potassium channel blockers

INVENTOR(S): Humphrey, Stephen J.; Meisheri, Kaushik D.; Ludens, James H.; Hester, Jackson B., Jr.

PATENT ASSIGNEE(S): Upjohn Co., USA

SOURCE: PCT Int. Appl., 18 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9404499	A1	19940303	WO 1993-US5458	19930611
W: AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AT 158279	E	19971015	AT 1993-917262	19930721
ES 2107049	T3	19971116	ES 1993-917262	19930721
ZA 9305619	A	19950203	ZA 1993-5619	19930803
IL 106641	A1	20010111	IL 1993-106641	19930810
CN 1090575	A	19940810	CN 1993-117781	19930813
CN 1039997	B	19980930		
CA 2161325	AA	19941222	CA 1993-2161325	19931126
WO 9429280	A1	19941222	WO 1993-US11332	19931126
W: AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, LV, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, UZ, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9510303	A1	19950103	AU 1995-10303	19931126
AU 673785	B2	19961121		
EP 703904	A1	19960403	EP 1994-904387	19931126
EP 703904	B1	19990224		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 08511264	T2	19961126	JP 1993-501716	19931126
AT 176905	E	19990315	AT 1994-904387	19931126
ES 2127918	T3	19990501	ES 1994-904387	19931126
US 5633374	A	19970527	US 1995-553308	19951120

PRIORITY APPLN. INFO.: US 1992-929795 A1 19920813
WO 1993-US5458 A 19930611
WO 1993-US11332 W 19931126

OTHER SOURCE(S): MARPAT 120:323269

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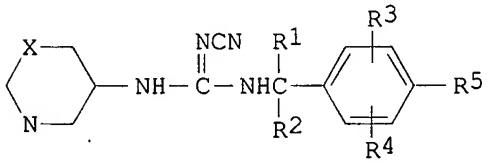


I

AB Title compds. I [X = CH, N; R1 = H, Me; R2 = C1-6 alkyl, C2-6 alkenyl, C2-6 alkynyl, C3-5 cycloalkyl, C1-5 hydroxyalkyl, methoxy-C1-5 alkyl; or R1R2C are combined to form a C3-C6 carbocyclic ring; R3 and R4 each independently = H, C1-4 alkyl, F, Cl, Br or CF3; R5 = H, F or Cl], and

pharmaceutically acceptable acid addn. salts are prepd. as potassium channel blockers, useful in the treatment of cardiovascular disorders, e.g., congestive heart failure and hypertension. Thus, successive reactions of two amines with di-Ph cyanocarbonimidate in Et2O afforded compds. I in most cases. Other solvents or reaction conditions were required in other cases, e.g., for X = N in compds. I. Compds. I have good potassium channel antagonist activity as well as natriuretic activity. Compd. I (R1 = H, R2 = Me, Z = Ph) exhibited 88.9 .+-. 11.2(2)% inhibition RMA (isolated rabbit mesenteric artery) K+ channel antagonism at 2.5 .mu.M. The cyanoguanidines of this invention, unlike other cyanoguanidines, block potassium channel conduction in vascular smooth muscle and in ATP-sensitive potassium channels in apical membranes of the kidney.

IT **155342-60-2P 155342-61-3P 155342-62-4P**
155342-64-6P 155342-66-8P 155342-72-6P
155342-73-7P 155342-74-8P 155342-78-2P
155342-79-3P 155342-80-6P 155342-81-7P
155342-82-8P 155342-83-9P 155342-84-0P
155342-86-2P 155418-81-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as potassium channel blocker and natriuretic)

L10 ANSWER 11 OF 21 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1993:511154 HCAPLUS
DOCUMENT NUMBER: 119:111154
TITLE: Substituted nitroguanidines provide cytokinin activity during in vitro cultivation of plant tissues
AUTHOR(S): Rodaway, Shirley
CORPORATE SOURCE: Agric. Res. Div., American Cyanamid Co., Princeton, NJ, 08543-0400, USA
SOURCE: Plant Cell Reports (1993), 12(5), 273-7
CODEN: PCRPD8; ISSN: 0721-7714
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Synthetic nitroguanidine derivs. can be used as alternatives to the traditional adenine-contg. cytokinins used in plant tissue culture. Nitrogunaidine derivs. (NG) mimicked the typical activity of two std. cytokinins, 6-benzylaminopurine (BAP) and 2-isopentenyladenine (2iP) in the soybean callus (Glycine max) growth bioassay. NGs caused unanticipated responses as well, as demonstrated in three lines of tobacco (Nicotiana tabacum), when the auxin concn. was reduced from the std. concn. of 2 .mu.g/mL NAA, to much lower concns. of 0.01 .mu.g/mL NAA or 0.02 .mu.g/mL IAA. At the low auxin concns., kinetin lost the ability to promote either growth or differentiation, while the NG cytokinins were fully able to promote both. NGs promoted growth and differentiation in the presence of 0.01 .mu.g/mL NAA in a newly initiated, totipotent line of Coker 319 tobacco. NGs plus 0.02 .mu.g/mL IAA also promoted callus growth in a cytokinin-habituated tobacco line, Havana 425-CH. NGs stimulated the outgrowth of healthy callus from aged callus that had been allowed to deteriorate through lack of subculture. Upon transfer of aged NTP callus to fresh media with NGs and 0.02 .mu.g/mL IAA, healthy cell cultures were rapidly produced. In all three cases, kinetin was ineffective at the low auxin concns. The NGs are therefore cytokinins, with the addnl. possibility of reducing the level of auxin required for their activity to be expressed.

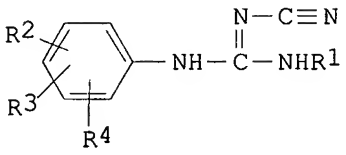
IT **93070-74-7**, 1-(.alpha.-Ethylbenzyl)-3-nitroguanidine
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(cytokinin activity of)

L10 ANSWER 12 OF 21 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1990:514834 HCAPLUS
DOCUMENT NUMBER: 113:114834

TITLE: Preparation of arylcyanoguanidines as potassium channel activators
INVENTOR(S): Atwal, Karnail S.; McCullough, John R.; Grover, Gary J.
PATENT ASSIGNEE(S): Squibb, E. R., and Sons, Inc., USA
SOURCE: Eur. Pat. Appl., 31 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 354553	A2	19900214	EP 1989-114729	19890809
EP 354553	A3	19900411		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
ZA 8905200	A	19900530	ZA 1989-5200	19890707
AU 8938959	A1	19900215	AU 1989-38959	19890725
AU 620424	B2	19920220		
DK 8903889	A	19900210	DK 1989-3889	19890808
HU 51247	A2	19900428	HU 1989-4067	19890808
HU 205070	B	19920330		
JP 02091057	A2	19900330	JP 1989-206582	19890809
AU 9190075	A1	19920213	AU 1991-90075	19911230
AU 640844	B2	19930902		

PRIORITY APPLN. INFO.: US 1988-230209 A 19880809
OTHER SOURCE(S): MARPAT 113:114834
GI



I

AB The title compds. I [R1 = alkyl, alkenyl, alkynyl, haloalkyl, cycloalkyl, aryl, etc.; R2 = cyano, NO2, COR5, CO2R5, etc.; R3, R4 = H, alkyl, alkenyl, alkynyl, haloalkyl, halo, alkoxy, groups defined for R2, etc.; or R2 and R3 taken together are a group which forms a ring with the two carbon atoms to which they are attached, which group is selected from S(O)m(CH2)nCH2, COX(CH2)pCH2, COCH2(CH2)pX, wherein m = 1, 2; n = 3-5; p = 2-4; X = O, NR5, CH2; R5 = H, groups defined for R1] and their tautomers, useful as potassium channel activators (no data), are prepd. The use of potassium channel activators (e.g., I, pinacidil, cromakalim, nicorandil, etc.) for the prepn. of drugs for the treatment of fibrillation of the heart is also claimed. A mixt. of Me N-cyano-N'-(4-nitrophenyl)carbamidothioate Me sulfate and 2-amino-3,3-dimethylbutane in isopropanol was heated at 90.degree. overnight to give, after workup and purifn., N''-cyano-N-(4-nitrophenyl)-N'-(1,2,2-trimethylpropyl)guanidine. Pinacidil at 0.9 .mu.g/kg/min prevented fibrillation during reperfusion in 5 out of 6 animals.

IT **129045-18-7P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. of, as potassium channel activator)

L10 ANSWER 13 OF 21 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1989:454266 HCAPLUS
DOCUMENT NUMBER: 111:54266

TITLE: Changes in membrane polar lipids associated with bud break in apple induced by nitroguanidines
AUTHOR(S): Wang, S. Y.; Faust, M.
CORPORATE SOURCE: Beltsville Agric. Res. Cent., Agric. Res. Serv., Beltsville, MD, 20705, USA
SOURCE: J. Plant Growth Regul. (1989), 8(2), 153-61
CODEN: JPGRDI; ISSN: 0721-7595
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The predominant lipids in membranes obtained from apple buds were galacto- and phospholipids. The major galactolipid components in apple bud were monogalactosyl diglyceride (MGDG) and digalactosyl diglyceride (DGDG). Phosphatidylcholine (PC) and phosphatidylethanolamine (PE) were the major phospholipids in the apple buds. .alpha.-Linolenic acid (C 18:3) was the major fatty acid in MGDG, DGDG, and PC. Phosphatidylglycerol (PG) is the only lipid to contain significant amts. of palmitic acid (C 16:0) in the dormant buds. An increase in the galacto- and phospholipids and the ratio of the unsatd. fatty acids to the corresponding satd. fatty acids of the buds occurred as a result of induction by 1-(3,5-dichlorophenyl)-3-nitroguanidine or 1-(.alpha.-ethylbenzyl)-3-nitroguanidine during bud break. The identities of fatty acids in apple buds were confirmed by gas chromatog.-mass spectrometry.

IT **93070-74-7**, 1-(.alpha.-Ethylbenzyl)-3-nitroguanidine
RL: BIOL (Biological study)
(budbreak in apple induced by, membrane for lipids in relation to)

L10 ANSWER 14 OF 21 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1989:454265 HCAPLUS
DOCUMENT NUMBER: 111:54265
TITLE: Nitroguanidines induce bud break and change sterol content in apple
AUTHOR(S): Wang, S. Y.; Faust, M.
CORPORATE SOURCE: Beltsville Agric. Res. Cent., Agric. Res. Serv., Beltsville, MD, 20705, USA
SOURCE: J. Plant Growth Regul. (1989), 8(2), 143-51
CODEN: JPGRDI; ISSN: 0721-7595
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Bud break in apple (Malus domestica cv. Golden Delicious) was induced by 1-(3,5-dichlorophenyl)-3-nitroguanidine (I) or 1-(.alpha.-ethylbenzyl)-3-nitroguanidine (II). The optimum dose was 1000 .mu.M. An increase in bud fresh wt., dry wt., and length was more prominent in buds treated with II than in those treated with I. The sterol compositional changes during bud break induced by I were similar to those induced by II. .beta.-Sitosterol and sitosteryl ester were the predominant sterols. The amts. of these sterols increased immediately after dormancy was broken and then declined. A decrease in the percentage of the sitosterol and sitosteryl ester was accompanied by an increase in campesterol and stigmasterol at the beginning of rapid growth. A decrease in the ratio of free sterols to phospholipids and an increase in the ratio of campesterol + stigmasterol to sitosterol upon breaking dormancy occurred in apple buds induced by I or II. In contrast, 1-(m-methoxybenzyl)-3-nitroguanidine did not affect breaking of apple bud dormancy and also had no effect on changes in sterol content. The sterols in apple buds were confirmed by gas chromatog.-mass spectrometry.

IT **93070-74-7**
RL: BIOL (Biological study)
(budbreak and sterol content in apple response to)

L10 ANSWER 15 OF 21 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1989:134852 HCAPLUS
DOCUMENT NUMBER: 110:134852
TITLE: The cyanamido moiety as a novel leaving group

AUTHOR(S): Reiter, Jozsef
CORPORATE SOURCE: EGIS Pharm., Budapest, H-1475, Hung.
SOURCE: Org. Prep. Proced. Int. (1988), 20(5), 465-74
CODEN: OPPIAK; ISSN: 0030-4948
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 110:134852
AB Substitution of N-cyanoisothioureas, e.g. RNHC(SMe):NCN (R = 4-R1C6H4CHR2; R1 = H, Cl, R2 = H, Me; R1 = H, R2 = Et) with ethanolamines gave mixts. of guanidine derivs. RNHC(NHCH2CH2OH):NCN (I) and isothiourea derivs. RNHC(SMe):NCH2CH2OH (II). In general, non-protic solvents and low temp. favor the formation of derivs. I and protic solvents and higher temps. promote the formation of II.
IT **119197-81-8P 119197-83-0P 119197-87-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

L10 ANSWER 16 OF 21 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1988:506446 HCAPLUS
DOCUMENT NUMBER: 109:106446
TITLE: Modeling of a plant growth regulant
AUTHOR(S): Lutz, Albert W.; Rodaway, Shirley J.
CORPORATE SOURCE: Agric. Res. Div., Am. Cyanamid Co., Princeton, NJ, 08540, USA
SOURCE: Proc. Plant Growth Regul. Soc. Am. (1986), 13th, 136-53
CODEN: PPGRDG; ISSN: 0731-1664
DOCUMENT TYPE: Journal
LANGUAGE: English
AB An attempt was made to probe the receptor-site by comparing biol. activities of a new class of synthetic cytokinins, the benzylnitroguanidines. A series of .alpha.-substituted benzylnitroguanidines was used to model some requirements of the cytokinin receptor-site. When a plot of .alpha. vs. .pi. consts. for small substituents on the benzyl ring was unable to account for differences in biol. activities of various compds., it became evident that spatial constraints might predominate in certain regions of the receptor. Alkyl substitutions on the .alpha.-carbon were used to investigate the spatial properties of the receptor by steric mapping. The shape and length of the alkyl substituent and the chirality of the .alpha.-carbon were crit. to activity. Space around the N1-nitrogen was probably restricted as this atom could not be substituted without loss of activity. There was also a limitation in the overall length of the mol. along one axis. As hypothesized, the low energy conformation of benzyladenine, a very potent synthetic cytokinin, and of benzylnitroguanidine were superimposable.
IT **116179-09-0 116179-10-3**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BIOL (Biological study); USES (Uses)
(plant growth regulating activity of, structure in relation to)

L10 ANSWER 17 OF 21 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1987:133816 HCAPLUS
DOCUMENT NUMBER: 106:133816
TITLE: Preparation of nitro- and cyanoguanidines as selective pre-emergence herbicides, desiccants, and plant defoliants
INVENTOR(S): Arotin, Robert L.; Walworth, Bryant L.; Marini, Michele E.
PATENT ASSIGNEE(S): American Cyanamid Co., USA
SOURCE: U.S., 13 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4639268	A	19870127	US 1985-759703	19850729
EP 210446	A2	19870204	EP 1986-108830	19860628
EP 210446	A3	19870513		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
BR 8603570	A	19870304	BR 1986-3570	19860728
US 5175365	A	19921229	US 1991-714909	19910614

PRIORITY APPLN. INFO.: US 1985-759703 19850729
US 1986-900940 19860827
US 1989-337517 19890413

OTHER SOURCE(S): CASREACT 106:133816
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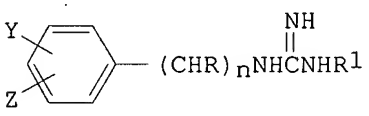

I

AB Guanidines I (R = allyl, CF3, CH2OMe, alkyl, hydroxyalkyl, methoxyalkyl; R1 = NO2, CN; Y = H, OH, alkoxy, halo; Z = H, halo, Me, CF3; n = 0, 1) are prepd. as pre-emergence herbicides, desiccants, and defoliants. A mixt. of PhCHEtNH2, MeN(NO)C(:NH)NHNO2, and EtOH was stirred for 18 h to give PhCHEtNHC(:NH)NHNO2 (II). Cotton was defoliated by 267 ppm II in the leaf-dip bioassay.

IT **93070-59-8P 93070-61-2P 93070-70-3P**
93070-72-5P 93070-73-6P 93070-74-7P
93070-75-8P 93070-76-9P 93070-77-0P
93070-78-1P 93070-79-2P 93070-80-5P
107356-53-6P 107356-54-7P 107356-55-8P
107356-56-9P 107356-57-0P 107356-58-1P
107356-59-2P 107356-60-5P 107356-61-6P
107356-62-7P 107356-63-8P 107356-64-9P
107356-65-0P 107356-66-1P 107356-68-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as herbicide and desiccant and defoliant)

L10 ANSWER 18 OF 21 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1986:406402 HCAPLUS
DOCUMENT NUMBER: 105:6402
TITLE: Furan derivatives having antiulcer activity
INVENTOR(S): De Vincentiis, Leonardo
PATENT ASSIGNEE(S): Ausonia Farmaceutici S.r.l., Italy
SOURCE: Eur. Pat. Appl., 62 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 164040	A2	19851211	EP 1985-106462	19850524
EP 164040	A3	19870701		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
ES 543448	A1	19870501	ES 1985-543448	19850523
US 4634701	A	19870106	US 1985-738668	19850528

AU 8543185	A1	19851212	AU 1985-43185	19850531
JP 61017578	A2	19860125	JP 1985-122358	19850605
ZA 8504301	A	19860129	ZA 1985-4301	19850606

PRIORITY APPLN. INFO.: IT 1984-21273 19840606

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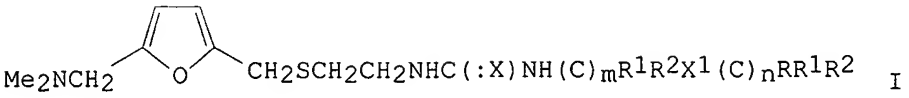

I

AB The title compds. I [X = CHNO2, NCN; X1 = CH2, O, S, bond; R = (un)substituted aryl, arylbicyclyl, -polycyclyl; R1, R2 = H, C1-4 alkyl; m, n = 0-4] having antiulcer activity (no data) were prepd. Thus, 1-nitro-2-[4-(2-methoxyethoxy)benzylamino]-2-[(2-mercaptoethyl)amino]ethane prepd. from 4-(2-hydroxyethoxy)benzyl alc. in 4 steps, was reacted with 2-[(dimethylamino)methyl]-5-(chloromethyl)furan to give N-[2-[[[5-[(dimethylamino)methyl]-2-furanyl]methyl]thio]ethyl]-N'-[4-(2-methoxyethoxy)benzyl]-2-nitro-1,1-ethenediamine.

IT **102196-47-4P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as antiulcer agent)

L10 ANSWER 19 OF 21 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1984:610775 HCAPLUS
DOCUMENT NUMBER: 101:210775
TITLE: Substituted nitro- and cyanoguanidines and their use in increasing crop yields
INVENTOR(S): Speltz, Laurine Mary; Walworth, Bryant Leonidas; Pavlista, Alexander Dimitri
PATENT ASSIGNEE(S): American Cyanamid Co. , USA
SOURCE: Ger. Offen., 25 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3345281	A1	19840620	DE 1983-3345281	19831214
US 4594092	A	19860610	US 1983-551611	19831117
EP 113070	A1	19840711	EP 1983-112206	19831205
EP 113070	B1	19880113		
R: AT, BE, CH, FR, GB, IT, LI, NL, SE				
EP 189579	A1	19860806	EP 1985-116211	19831205
R: AT, BE, CH, FR, GB, IT, LI, NL, SE				
AT 31920	E	19880115	AT 1983-112206	19831205
FI 8304676	A	19840603	FI 1983-4676	19831219
DK 8305850	A	19840621	DK 1983-5850	19831219
AU 8322515	A1	19840628	AU 1983-22515	19831219
AU 565227	B2	19870910		
BR 8306966	A	19840724	BR 1983-6966	19831219
ZA 8309399	A	19840829	ZA 1983-9399	19831219
ES 528171	A1	19851116	ES 1983-528171	19831219
JP 59118757	A2	19840709	JP 1983-239067	19831220
HU 32554	O	19840828	HU 1983-4350	19831220
HU 195637	B	19880628		

DD 225988	A5	19850814	DD 1983-258234	19831220
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ES 543756	A1	19861016	ES 1985-543756	19850531
US 4804780	A	19890214	US 1986-835847	19860303
AU 8775567	A1	19871022	AU 1987-75567	19870713
FI 8802004	A	19880428	FI 1988-2004	19880428
US 4944788	A	19900731	US 1988-278709	19881201

PRIORITY APPLN. INFO.:
US 1982-451698 19821220
US 1983-551611 19831117
EP 1983-112206 19831205
FI 1983-4676 19831219
US 1986-835847 19860303

OTHER SOURCE(S): CASREACT 101:210775

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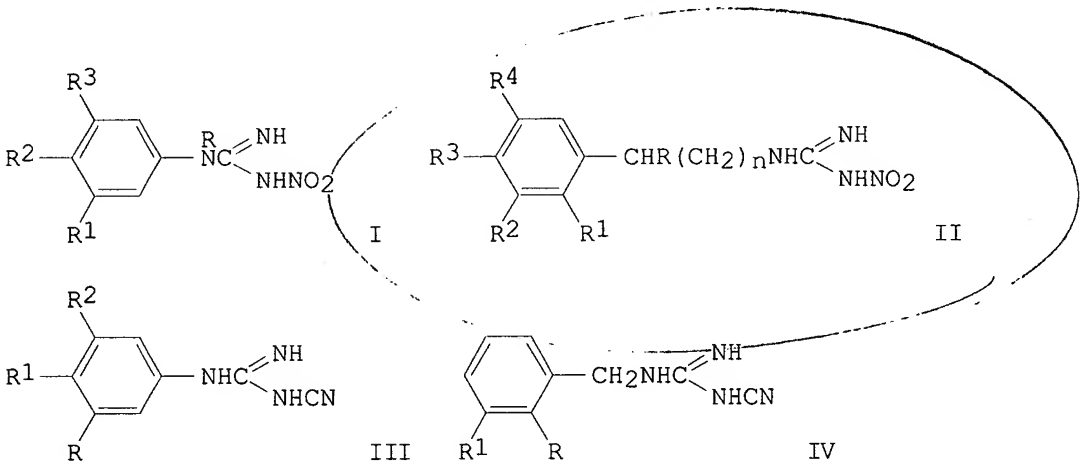

AB Title compds. (155 in all) [I (R = H, Me; R1 = halo, Me, MeS, etc.; R2 = H, Me, halo; R3 = H, Me, MeO, CF3, halo); II (R = H, Me, CF3, Et; R1 = H, F; R2 = H, OH, C1-4 alkoxy, etc.; R3 = H, F; R4 = H, F, Me, OMe; n = 0-2); III (R = Me, CF3, MeO, halo; R1 = OH, halo; R2 = H, Cl); IV (R = H, F; R1 = C1-4 alkyl or alkoxy, F] were prepd. by reaction of the appropriate amine with MeN(NO)N(:NH)NHNO2 or NaN(CN)2, and shown via extensive test data to stimulate the growth of a no. of desirable plants, e.g., rice.

IT **93070-58-7P 93070-59-8P 93070-61-2P**
93070-70-3P 93070-72-5P 93070-73-6P
93070-74-7P 93070-75-8P 93070-76-9P
93070-77-0P 93070-78-1P 93070-79-2P
93070-80-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and plant growth stimulating activity of)

L10 ANSWER 20 OF 21 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1980:51717 HCAPLUS
DOCUMENT NUMBER: 92:51717
TITLE: Adaptive least-squares method applied to structure-activity correlation of hypotensive N-alkyl-N''-cyano-N'-pyridylguanidines
AUTHOR(S): Moriguchi, Ikuo; Komatsu, Katsuichiro; Matsushita, Yasuo
CORPORATE SOURCE: Sch. Pharm. Sci., Kitasato Univ., Tokyo, 108, Japan
SOURCE: J. Med. Chem. (1980), 23(1), 20-6
CODEN: JMCMAR; ISSN: 0022-2623
DOCUMENT TYPE: Journal
LANGUAGE: English
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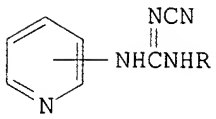

I

AB A method using an adaptive least-squares (ALS) technique was developed for the discrimination of ordered categorical data. The method (ALS method) has the advantages of simultaneously considering any no. of classes and of producing a single discriminant function which can place patterns in several classes. The ALS method was compared with linear discriminant anal. (LDA) in application to the problem of discriminating 3-class hypotensive therapeutic indexes of 76 N-alkyl-N''-cyano-N'-pyridylguanidines I (R = alkyl) using 9 descriptor variables. It was shown that the ALS method was superior and more stable in recognition and prediction. The structure-activity relation is discussed on the basis of discriminant functions formulated.

IT **67026-56-6**
RL: BIOL (Biological study)
(antihypertensive, statistical pattern recognition in relation to)

L10 ANSWER 21 OF 21 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1978:499710 HCAPLUS
DOCUMENT NUMBER: 89:99710
TITLE: Synthesis and hypotensive activity of N-alkyl-N''-cyano-N'-pyridylguanidines
AUTHOR(S): Petersen, Hans Joergen; Nielsen, C. Kaergaard; Arrigoni-Martelli, E.
CORPORATE SOURCE: Dep. Pharmacol., Leo Pharm. Prod., Ballerup, Den.
SOURCE: J. Med. Chem. (1978), 21(8), 773-81
CODEN: JMCMAR; ISSN: 0022-2623
DOCUMENT TYPE: Journal
LANGUAGE: English
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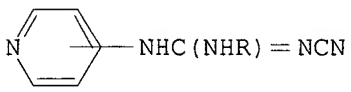

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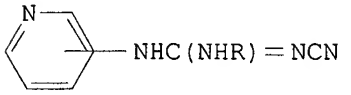

II, R=CMe_2Et
III, R=CMe_3

AB The synthesis of 76 title compds. I (R = H, alkyl, CH2CH2OEt, etc.), prepd. as potential bioisosteres of hypotensive N-alkyl-N'-pyridylthioureas, is discribed. In hypertensive rats and dogs, II [60559-98-0] was 200 times more potent than the corresponding thiourea. In comparison with guancydine [1113-10-6], a 150-fold increase of potency in spontaneously hypertensive rats was obtained with II and its tert-Bu analog III [60559-94-6]. Apparently, the activity is due to direct vascular relaxation. Structure-activity relations are discussed.

IT **67026-56-6P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); USES (Uses)
(prepn. and antihypertensive activity of)

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L4              259 SEA FILE=REGISTRY ABB=ON  PLU=ON  THIDIAZURON OR DIURON? OR
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                    OR NITROFEN? OR OXYFLUORFEN? OR OXIDIAZON OR LS 82556/CN OR S
                    23142/CN OR M AND B 39279/CN
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L7             1001 SEA FILE=REGISTRY ABB=ON  PLU=ON  L6 OR PROTOPORPHYR?
L8              279 SEA FILE=REGISTRY ABB=ON  PLU=ON  NITROGUANIDIN?
L9             2409 SEA FILE=REGISTRY ABB=ON  PLU=ON  CYANOGUANIDIN?
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L13               1 SEA FILE=REGISTRY ABB=ON  PLU=ON  S 23142/CN
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L17           43124 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L7 OR THIDIAZURON OR DIURON?
                    OR ETHEPHON? OR PROTOPORPHYR? OR PPO OR ACIFLUORFEN? OR
                    FOMESA? OR NITROFEN? OR OXYFLUORFEN? OR OXIDIAZON OR L16 OR
                    L14 OR M AND L12
L19           14440 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L8 OR L9 OR NITROGUANIDIN? OR
                    CYANOGUANIDIN?
L21             215 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L19 (L) L17
L22               3 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L21 AND (HERBICID? OR
                    DEFOLIAT?)
L23               3 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L22 NOT L10


=> d ibib abs hitrn l23 1-3

L23  ANSWER 1 OF 3  HCAPLUS  COPYRIGHT 2002 ACS
ACCESSION NUMBER:         1997:499837  HCAPLUS
DOCUMENT NUMBER:          127:216295
TITLE:                    The photoreaction center of Rhodobacter sphaeroides. A
                          "biosensor protein" for the determination of
                          photosystem-II herbicides?
AUTHOR(S):                Peters, Heinz; Schmidt-Dannert, Claudia; Schmid, Rolf
                          D.
CORPORATE SOURCE:         Institute Technical Biochemistry, University
                          Stuttgart, Stuttgart, D-70569, Germany
SOURCE:                   Materials Science & Engineering, C: Biomimetic
                          Materials, Sensors and Systems (1997), C4(4), 227-232
                          CODEN: MSCEEE; ISSN: 0928-4931
PUBLISHER:                Elsevier
DOCUMENT TYPE:            Journal
LANGUAGE:                 English
AB   According to a European directive for drinking water (1980), pesticides
     are tolerable only in extremely low concn. of 0.1 .mu.g/L.  An alternative
     receptor, photosystem-II (PSII), was presented which interacts with
     photosystem-II herbicides.  The structure and function were
     reviewed of the photosynthetic reaction center (RC) from Rhodobacter
     sphaeroides and its application for the detection of PSII
     herbicides using different biosensor formats.  An assay based on
     photobleaching of RC, a displacement assay based on bacterial luciferase
     as detection system, and a grating coupler device for measuring the amt.
     of PSII herbicides was developed.  It was not sensitive enough
```

to comply to the detection limits set by EU regulation. Both the sensitivity and selectivity of RC might be increased by modification of the RC using genetic engineering techniques.

IT **330-54-1 556-88-7**
RL: ANT (Analyte); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study)
(photoreaction center of Rhodobacter sphaeroides is biosensor protein for detn. of photosystem II **herbicides**)

L23 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1984:206386 HCAPLUS
DOCUMENT NUMBER: 100:206386
TITLE: Effect of **diuron** and nitrosoguanidine on the heritability of the chloroplast gene in Chlamydomonas
AUTHOR(S): Khakimov, Ya. I.; Khalilov, S. Kh.
CORPORATE SOURCE: Tashk. S-kh. Inst., Fergana, USSR
SOURCE: Uzb. Biol. Zh. (1984), (1), 21-3
CODEN: UZBZAZ; ISSN: 0042-1685
DOCUMENT TYPE: Journal
LANGUAGE: Russian

AB Hybridization of (+) and (-) strains of C. reinhardii carrying streptomycin resistance chloroplast gene produced few exclusive zygotes completely devoid of the antibiotic resistance determinant. Addn. of **diuron** (**herbicide**) or N-nitroso-N-nitrosoguanidine markedly increased the frequency of formation of exclusive zygotes, indicating the high sensitivity of the gene to the mutagens. Thus, C. reinhardii may be a convenient model for studies involving the genetic effects of **herbicides** and mutagens.

IT **70-25-7 330-54-1**
RL: BIOL (Biological study)
(streptomycin resistance gene response to, in chloroplast of Chlamydomonas reinhardii)

L23 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1967:18253 HCAPLUS
DOCUMENT NUMBER: 66:18253
TITLE: Toxicity of new pesticides and sewage treatment agents to fish
AUTHOR(S): Nehring, Dietwart
CORPORATE SOURCE: Deut. Akad. Landwirtschaftswiss., Berlin, Ger.
SOURCE: Z. Fisch. Deren Hilfswiss. (1966), 14(1-2), 1-8
CODEN: ZFDHA8
DOCUMENT TYPE: Journal
LANGUAGE: German

AB Substances used as **herbicides**, insecticides, fungicides, molluscicides, and in the treatment of sewage (e.g. flotation agents) were tested for toxicity on several kinds of fish. The fungicides tried were almost all highly toxic; **herbicides** and pesticides often acted as nerve poisons; some sewage treatment agents were non-toxic. Dimethylamine, because of high basicity, eroded the gills and mucous membranes of fish.

IT **330-54-1 461-58-5**
RL: PRP (Properties)
(toxicity of, to fish)

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E4 THROUGH E5 ASSIGNED

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FILE 'REGISTRY' ENTERED AT 13:28:00 ON 28 SEP 2002
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DICTIONARY FILE UPDATES:  27 SEP 2002  HIGHEST RN 456527-32-5

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available.  See HELP
PROPERTIES for more information.  See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

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             1 556-88-7/BI
               (556-88-7/RN)
             1 70-25-7/BI
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L24  ANSWER 1 OF 4  REGISTRY  COPYRIGHT 2002 ACS
RN   556-88-7  REGISTRY
CN   Guanidine, nitro- (8CI, 9CI)  (CA INDEX NAME)
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CN   .alpha.-Nitroguanidine
CN   .beta.-Nitroguanidine
CN   1-Nitroguanidine
CN   2-Nitroguanidine
CN   N''-Nitroguanidine
CN   N1-Nitroguanidine
CN   Nitroguanidine
CN   NQ
CN   Picrite
CN   Picrite (propellant)
FS   3D CONCORD
MF   C H4 N4 O2
CI   COM
LC   STN Files:   AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
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BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DETHERM*, EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USPAT2, USPATFULL, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

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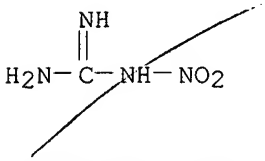

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REFERENCE 1: 137:204806

REFERENCE 2: 137:204805

REFERENCE 3: 137:187797

REFERENCE 4: 137:171938

REFERENCE 5: 137:127186

REFERENCE 6: 137:95925

REFERENCE 7: 137:81091

REFERENCE 8: 137:81089

REFERENCE 9: 137:65357

REFERENCE 10: 137:35156

L24 ANSWER 2 OF 4 REGISTRY COPYRIGHT 2002 ACS
RN **461-58-5** REGISTRY
CN Guanidine, cyano- (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1-Cyanoguanidine
CN 2-Cyanoguanidine
CN 200X
CN ACR-H 3636
CN ACR-H 3636AS
CN Adeka HT 2844
CN Ajicure AH 150
CN Amicure 3809
CN Amicure AH 150
CN Amicure AH 154
CN Amicure AH 162
CN Amicure CG 1200
CN Amicure CG 140
CN Amicure CG 1400
CN Amicure CG 325
CN Araldite HT 986

CN Araldite XB 2879B
CN Araldite XB 2979B
CN Bakelite VE 2560
CN CG
CN CG 1200
CN CG 1400
CN CGNA
CN Cyanoguanidine
CN DCD
CN DCDA
CN Dicy
CN Dicy 100S
CN DICY 7
CN DICY 70
CN DICY 7A
CN DICY-FP
CN Dicyandiamide
CN Dicyanex 1400B
CN Dicyanex 200
CN Dicyanex 200X
CN Dicyanodiamide
CN Didin
CN Dyhard 100
CN Dyhard 100S
CN Dyhard 100SF
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CN Dyhard SF
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CN EH 3636S
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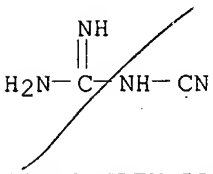


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5190 REFERENCES IN FILE CA (1962 TO DATE)
617 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
5196 REFERENCES IN FILE CAPLUS (1962 TO DATE)

18 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:203055

REFERENCE 2: 137:203035

REFERENCE 3: 137:202583

REFERENCE 4: 137:202361

REFERENCE 5: 137:202352

REFERENCE 6: 137:202073

REFERENCE 7: 137:202064

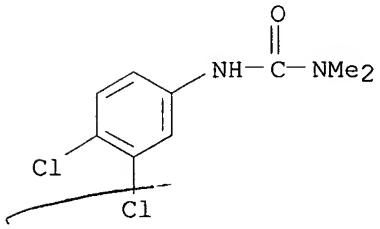
REFERENCE 8: 137:187410

REFERENCE 9: 137:187159

REFERENCE 10: 137:186648

L24 ANSWER 3 OF 4 REGISTRY COPYRIGHT 2002 ACS
RN **330-54-1** REGISTRY
CN Urea, N'-(3,4-dichlorophenyl)-N,N-dimethyl- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Urea, 3-(3,4-dichlorophenyl)-1,1-dimethyl- (8CI)
OTHER NAMES:
CN 1,1-Dimethyl-3-(3,4-dichlorophenyl)urea
CN 1-(3,4-Dichlorophenyl)-3,3-dimethylurea
CN 3-(3,4-Dichlorophenyl)-1,1-dimethylurea
CN DCMC
CN DCMU
CN DCMU 99
CN Diuron
CN Diuron Nortox
CN DMU
CN DP Hardener 95
CN Duran
CN Dyhard UR 200
CN Herbatox
CN HRT Dinron
CN HW 920
CN Karmax
CN Karmex
CN Karmex D
CN Karmex Diuron Herbicide
CN Karmex DW
CN Lucenit
CN Marmer
CN N'-(3,4-Dichlorophenyl)-N,N-dimethylurea
CN N,N-Dimethyl-N'-(3,4-dichlorophenyl)urea
CN N-(3,4-Dichlorophenyl)-N',N'-dimethylurea
CN Preventol A 6
CN Telvar Diuron Weed Killer
FS 3D CONCORD
DR 127641-75-2, 56449-18-4, 102962-29-8, 150825-44-8, 201749-62-4
MF C9 H10 Cl2 N2 O
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*,

MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4741 REFERENCES IN FILE CA (1962 TO DATE)
59 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
4748 REFERENCES IN FILE CAPLUS (1962 TO DATE)
58 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:205961

REFERENCE 2: 137:198447

REFERENCE 3: 137:198434

REFERENCE 4: 137:182488

REFERENCE 5: 137:182487

REFERENCE 6: 137:182399

REFERENCE 7: 137:181089

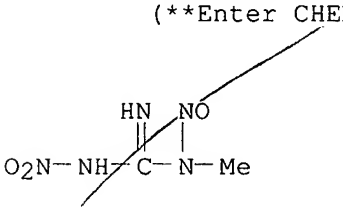
REFERENCE 8: 137:174403

REFERENCE 9: 137:174358

REFERENCE 10: 137:169074

L24 ANSWER 4 OF 4 REGISTRY COPYRIGHT 2002 ACS
RN **70-25-7** REGISTRY
CN Guanidine, N-methyl-N'-nitro-N-nitroso- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Guanidine, 1-methyl-3-nitro-1-nitroso- (6CI, 8CI)
OTHER NAMES:
CN 1-Methyl-1-nitroso-2-nitroguanidine
CN 1-Methyl-1-nitroso-3-nitroguanidine
CN 1-Methyl-3-nitro-1-nitrosoguanidine
CN 1-Nitroso-3-nitro-1-methylguanidine
CN Methylnitronitrosoguanidine
CN MNNG
CN N-Methyl-N'-nitro-N-nitrosoguanadine
CN N-Methyl-N'-nitro-N-nitrosoguanidine
CN N-Methyl-N-nitroso-N'-nitroguanidine
CN N-Methyl-N1-nitro-N-nitrosoguanidine
CN N-Nitroso-N'-nitro-N-methylguanidine
CN N-Nitroso-N-methyl-N'-nitroguanidine

CN N-Nitroso-N-methylnitroguanidine
CN Nitrosoguanidine
CN NSC 9369
FS 3D CONCORD
DR 100234-53-5
MF C2 H5 N5 O3
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DRUGU, EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, ULIDAT, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**, NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3882 REFERENCES IN FILE CA (1962 TO DATE)
3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
3886 REFERENCES IN FILE CAPLUS (1962 TO DATE)
30 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:196897

REFERENCE 2: 137:185837

REFERENCE 3: 137:163347

REFERENCE 4: 137:154121

REFERENCE 5: 137:138771

REFERENCE 6: 137:129407

REFERENCE 7: 137:106325

REFERENCE 8: 137:106067

REFERENCE 9: 137:104285

REFERENCE 10: 137:92760

=> d reg l3 tot
1 RN 288076-62-0 REGISTRY
2 RN 288076-61-9 REGISTRY
3 RN 288076-32-4 REGISTRY
4 RN 232600-75-8 REGISTRY
5 RN 183119-59-7 REGISTRY
6 RN 172885-03-9 REGISTRY
DR 155418-81-8
7 RN 170793-47-2 REGISTRY
8 RN 170793-45-0 REGISTRY
9 RN 170793-44-9 REGISTRY

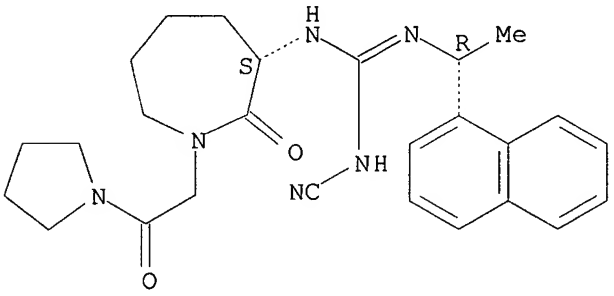
10	RN	170793-43-8	REGISTRY
11	RN	170793-42-7	REGISTRY
12	RN	170793-41-6	REGISTRY
13	RN	170793-39-2	REGISTRY
14	RN	170793-38-1	REGISTRY
15	RN	158943-20-5	REGISTRY
16	RN	158943-14-7	REGISTRY
17	RN	158943-13-6	REGISTRY
18	RN	158943-12-5	REGISTRY
19	RN	158943-11-4	REGISTRY
20	RN	158943-10-3	REGISTRY
21	RN	158943-09-0	REGISTRY
22	RN	158943-08-9	REGISTRY
23	RN	158943-07-8	REGISTRY
24	RN	158943-06-7	REGISTRY
25	RN	158943-05-6	REGISTRY
26	RN	158943-04-5	REGISTRY
27	RN	158943-03-4	REGISTRY
28	RN	158942-97-3	REGISTRY
29	RN	158942-96-2	REGISTRY
30	RN	158942-94-0	REGISTRY
31	RN	158942-93-9	REGISTRY
32	RN	158942-92-8	REGISTRY
33	RN	158942-91-7	REGISTRY
34	RN	158942-89-3	REGISTRY
35	RN	158942-88-2	REGISTRY
36	RN	158942-87-1	REGISTRY
37	RN	158942-86-0	REGISTRY
38	RN	158942-85-9	REGISTRY
39	RN	158942-82-6	REGISTRY
40	RN	158942-81-5	REGISTRY
41	RN	155342-86-2	REGISTRY
42	RN	155342-84-0	REGISTRY
43	RN	155342-83-9	REGISTRY
44	RN	155342-82-8	REGISTRY
45	RN	155342-81-7	REGISTRY
46	RN	155342-80-6	REGISTRY
47	RN	155342-79-3	REGISTRY
48	RN	155342-78-2	REGISTRY
49	RN	155342-74-8	REGISTRY
50	RN	155342-73-7	REGISTRY
51	RN	155342-72-6	REGISTRY
52	RN	155342-66-8	REGISTRY
53	RN	155342-64-6	REGISTRY
54	RN	155342-62-4	REGISTRY
55	RN	155342-61-3	REGISTRY
56	RN	155342-60-2	REGISTRY
57	RN	129045-18-7	REGISTRY
58	RN	119197-87-4	REGISTRY
59	RN	119197-83-0	REGISTRY
60	RN	119197-81-8	REGISTRY
61	RN	116179-10-3	REGISTRY
62	RN	116179-09-0	REGISTRY
63	RN	107356-68-3	REGISTRY
64	RN	107356-66-1	REGISTRY
65	RN	107356-65-0	REGISTRY
66	RN	107356-64-9	REGISTRY
67	RN	107356-63-8	REGISTRY
68	RN	107356-62-7	REGISTRY
69	RN	107356-61-6	REGISTRY
70	RN	107356-60-5	REGISTRY
71	RN	107356-59-2	REGISTRY
72	RN	107356-58-1	REGISTRY

73	RN	107356-57-0	REGISTRY
74	RN	107356-56-9	REGISTRY
75	RN	107356-55-8	REGISTRY
76	RN	107356-54-7	REGISTRY
77	RN	107356-53-6	REGISTRY
78	RN	102196-47-4	REGISTRY
79	RN	93070-80-5	REGISTRY
80	RN	93070-79-2	REGISTRY
81	RN	93070-78-1	REGISTRY
82	RN	93070-77-0	REGISTRY
83	RN	93070-76-9	REGISTRY
84	RN	93070-75-8	REGISTRY
85	RN	93070-74-7	REGISTRY
86	RN	93070-73-6	REGISTRY
87	RN	93070-72-5	REGISTRY
88	RN	93070-70-3	REGISTRY
89	RN	93070-61-2	REGISTRY
90	RN	93070-59-8	REGISTRY
91	RN	93070-58-7	REGISTRY
92	RN	67026-56-6	REGISTRY

=> d ide can l3 1 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 92

L3 ANSWER 1 OF 92 REGISTRY COPYRIGHT 2002 ACS
RN 288076-62-0 REGISTRY
CN Pyrrolidine, 1-[[(3S)-3-[[(cyanoamino)[[(1R)-1-(1-naphthalenyl)ethyl]amino]methylene]amino]hexahydro-2-oxo-1H-azepin-1-yl]acetyl]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C26 H32 N6 O2
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

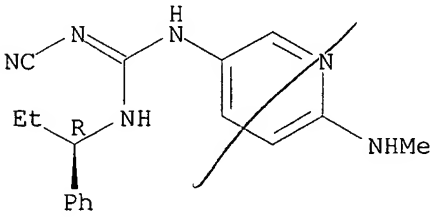
1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 133:164010

L3 ANSWER 5 OF 92 REGISTRY COPYRIGHT 2002 ACS
RN 183119-59-7 REGISTRY
CN Guanidine, N-cyano-N'-[6-(methylamino)-3-pyridinyl]-N''-(1-phenylpropyl)-, (R)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH

MF C17 H20 N6
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.
Double bond geometry unknown.



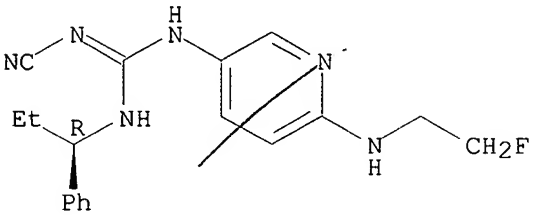
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 125:300837

L3 ANSWER 10 OF 92 REGISTRY COPYRIGHT 2002 ACS
RN 170793-43-8 REGISTRY
CN Guanidine, N-cyano-N'-[6-[(2-fluoroethyl)amino]-3-pyridinyl]-N''-(1-phenylpropyl)-, (R)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C18 H21 F N6
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.
Double bond geometry unknown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

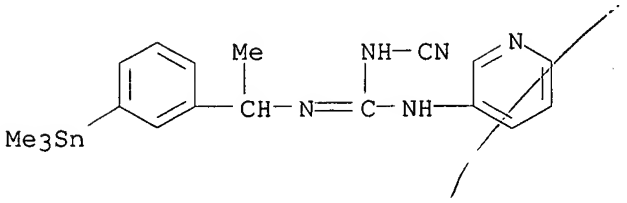
2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 127:288180

REFERENCE 2: 124:8633

L3 ANSWER 15 OF 92 REGISTRY COPYRIGHT 2002 ACS
RN 158943-20-5 REGISTRY
CN Guanidine, N-cyano-N'-3-pyridinyl-N''-[1-[3-(trimethylstannyl)phenyl]ethyl]- (9CI) (CA INDEX NAME)
MF C18 H23 N5 Sn
SR CA

LC STN Files: CA, CAPLUS, USPATFULL



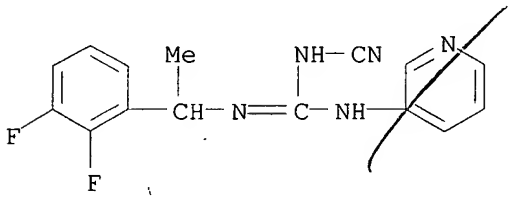
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 125:300837

REFERENCE 2: 121:280546

L3 ANSWER 20 OF 92 REGISTRY COPYRIGHT 2002 ACS
RN 158943-10-3 REGISTRY
CN Guanidine, N-cyano-N'-[1-(2,3-difluorophenyl)ethyl]-N''-3-pyridinyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C15 H13 F2 N5
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

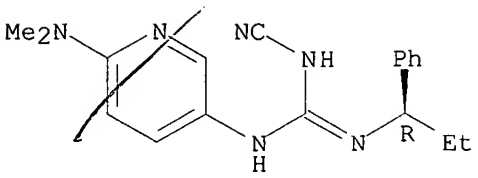
2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 125:300837

REFERENCE 2: 121:280546

L3 ANSWER 25 OF 92 REGISTRY COPYRIGHT 2002 ACS
RN 158943-05-6 REGISTRY
CN Guanidine, N-cyano-N'-[6-(dimethylamino)-3-pyridinyl]-N''-(1-phenylpropyl)-, (R)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C18 H22 N6
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.
Double bond geometry unknown.

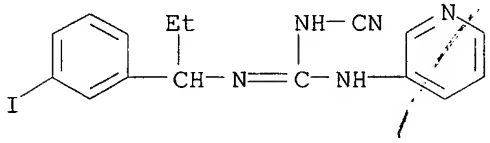


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 121:280546

L3 ANSWER 30 OF 92 REGISTRY COPYRIGHT 2002 ACS
RN 158942-94-0 REGISTRY
CN Guanidine, N-cyano-N'-[1-(3-iodophenyl)propyl]-N''-3-pyridinyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H16 I N5
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

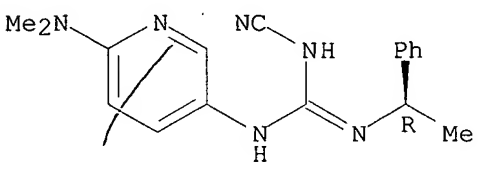
2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 125:300837

REFERENCE 2: 121:280546

L3 ANSWER 35 OF 92 REGISTRY COPYRIGHT 2002 ACS
RN 158942-88-2 REGISTRY
CN Guanidine, N-cyano-N'-[6-(dimethylamino)-3-pyridinyl]-N''-(1-phenylethyl)-, (R)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C17 H20 N6
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.
Double bond geometry unknown.



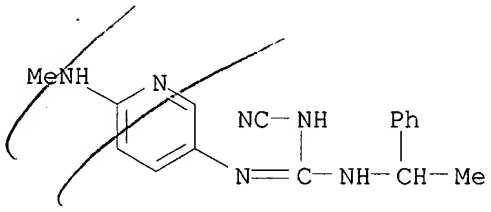
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 125:300837

REFERENCE 2: 121:280546

L3 ANSWER 40 OF 92 REGISTRY COPYRIGHT 2002 ACS
RN 158942-81-5 REGISTRY
CN Guanidine, N-cyano-N'-[6-(methylamino)-3-pyridinyl]-N''-(1-phenylethyl)-(9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H18 N6
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



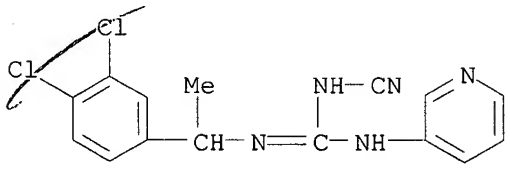
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 125:300837

REFERENCE 2: 121:280546

L3 ANSWER 45 OF 92 REGISTRY COPYRIGHT 2002 ACS
RN 155342-81-7 REGISTRY
CN Guanidine, N-cyano-N'-[1-(3,4-dichlorophenyl)ethyl]-N''-3-pyridinyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C15 H13 Cl2 N5
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1962 TO DATE)
4 REFERENCES IN FILE CAPLUS (1962 TO DATE)

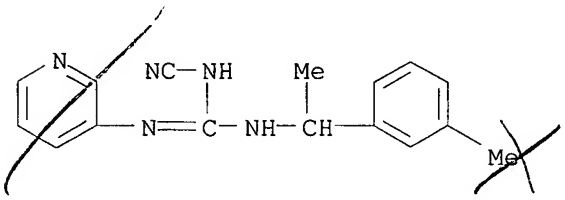
REFERENCE 1: 131:111152

REFERENCE 2: 125:300837

REFERENCE 3: 121:280546

REFERENCE 4: 120:323269

L3 ANSWER 50 OF 92 REGISTRY COPYRIGHT 2002 ACS
RN 155342-73-7 REGISTRY
CN Guanidine, N-cyano-N'-[1-(3-methylphenyl)ethyl]-N''-3-pyridinyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H17 N5
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

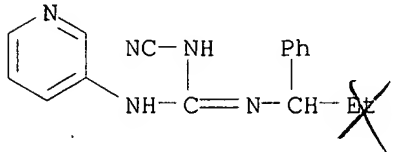
3 REFERENCES IN FILE CA (1962 TO DATE)
3 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 125:300837

REFERENCE 2: 121:280546

REFERENCE 3: 120:323269

L3 ANSWER 55 OF 92 REGISTRY COPYRIGHT 2002 ACS
RN 155342-61-3 REGISTRY
CN Guanidine, N-cyano-N'-(1-phenylpropyl)-N''-3-pyridinyl- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN PNU 94750
FS 3D CONCORD
MF C16 H17 N5
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1962 TO DATE)
4 REFERENCES IN FILE CAPLUS (1962 TO DATE)

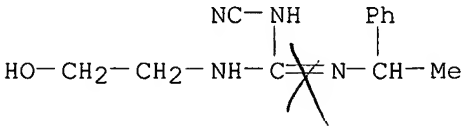
REFERENCE 1: 128:149199

REFERENCE 2: 125:300837

REFERENCE 3: 121:280546

REFERENCE 4: 120:323269

L3 ANSWER 60 OF 92 REGISTRY COPYRIGHT 2002 ACS
RN 119197-81-8 REGISTRY
CN Guanidine, N-cyano-N'-(2-hydroxyethyl)-N''-(1-phenylethyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C12 H16 N4 O
SR CA
LC STN Files: CA, CAPLUS, CASREACT

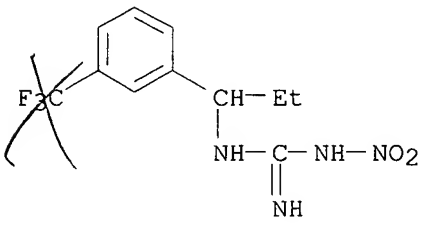


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 110:134852

L3 ANSWER 65 OF 92 REGISTRY COPYRIGHT 2002 ACS
RN 107356-65-0 REGISTRY
CN Guanidine, N-nitro-N'-[1-[3-(trifluoromethyl)phenyl]propyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C11 H13 F3 N4 O2
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

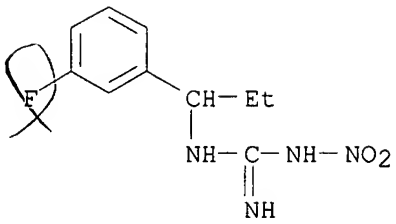


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 106:133816

L3 ANSWER 70 OF 92 REGISTRY COPYRIGHT 2002 ACS
RN 107356-60-5 REGISTRY
CN Guanidine, N-[1-(3-fluorophenyl)propyl]-N'-nitro- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C10 H13 F N4 O2
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



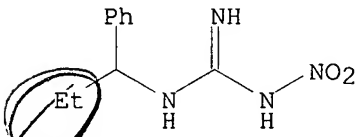
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 106:133816

L3 ANSWER 75 OF 92 REGISTRY COPYRIGHT 2002 ACS
RN 107356-55-8 REGISTRY
CN Guanidine, N-nitro-N'-(1-phenylpropyl)-, (-)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C10 H14 N4 O2
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Rotation (-).

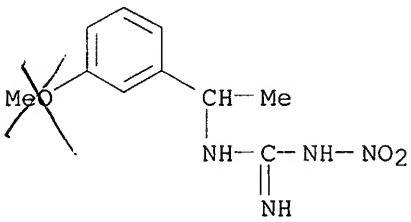


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 106:133816

L3 ANSWER 80 OF 92 REGISTRY COPYRIGHT 2002 ACS
RN 93070-79-2 REGISTRY
CN Guanidine, N-[1-(3-methoxyphenyl)ethyl]-N'-nitro- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C10 H14 N4 O3
LC STN Files: CA, CAPLUS, USPATFULL



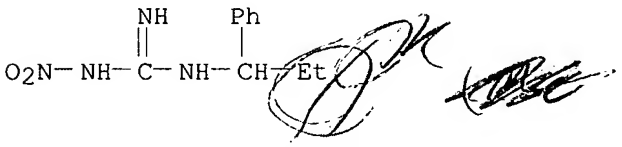
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 106:133816

REFERENCE 2: 101:210775

L3 ANSWER 85 OF 92 REGISTRY COPYRIGHT 2002 ACS
RN 93070-74-7 REGISTRY
CN Guanidine, N-nitro-N'-(1-phenylpropyl)- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1-(.alpha.-Ethylbenzyl)-3-nitroguanidine
FS 3D CONCORD
MF C10 H14 N4 O2
LC STN Files: BIOSIS, CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1962 TO DATE)
5 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 119:111154

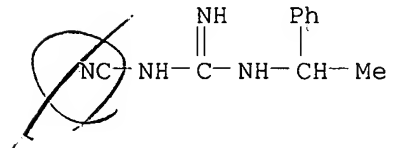
REFERENCE 2: 111:54266

REFERENCE 3: 111:54265

REFERENCE 4: 106:133816

REFERENCE 5: 101:210775

L3 ANSWER 90 OF 92 REGISTRY COPYRIGHT 2002 ACS
RN 93070-59-8 REGISTRY
CN Guanidine, N-cyano-N'-(1-phenylethyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C10 H12 N4
LC STN Files: CA, CAPLUS, USPATFULL



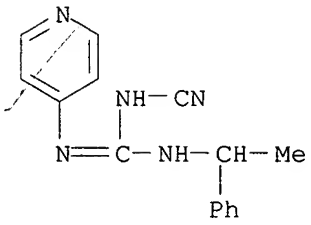
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 106:133816

REFERENCE 2: 101:210775

L3 ANSWER 92 OF 92 REGISTRY COPYRIGHT 2002 ACS
RN 67026-56-6 REGISTRY
CN Guanidine, N-cyano-N'-(1-phenylethyl)-N''-4-pyridinyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C15 H15 N5
LC STN Files: BEILSTEIN*, CA, CAPLUS, RTECS*
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 92:51717

REFERENCE 2: 89:99710